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INFORMATION DISCLOSURE STATEMENT

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ATTY. DO.

263/176

NO.

SERIAL NO.

09/837,829

APPLICANT:

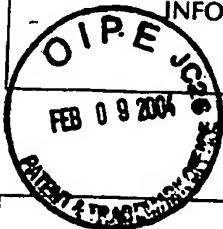
YING W. HSU

FILING DATE:

April 17, 2001

GROUP:

2633



OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

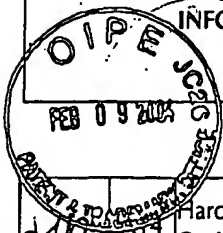
Examiner Initials*	Cite No. ¹	Include name of the author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	2
RM	A1	Benaissa, K.; and Nathan, A.; "Silicon Anti-Resonant Reflecting Optical Waveguides for Sensor Applications;" <i>Journal of Sensors and Actuators (A Physical)</i> , Vol. A65, 33-44, 1998	
RM	A2	Broekemoto, Takuji; Noguchi, Yutaka; et al.; "Polyimide Optical Waveguides With Multi-Fan-Out for Multi-Chip Module Application;" <i>Proceedings of the 27th European Solid-State Device Research Conference, France, September 22-24, 1997</i>	
RM	A3	Brown, K.S.; Taylor, B.J.; Dawson, J.M.; Hornak, L.A.; "Polymer Waveguide Co-integration With Microelectromechanical Systems (MEMS) for Integrated Optical Metrology;" <i>Proceedings of the SPIE (The International Society for Optical Engineering)</i> , Vol. 3276, 1998	
RM	A4	Burcham, Kevin E.; and Boyd, Joseph T.; "Freestanding, Micromachined, Multimode Silicon Optical Waveguides at $\lambda = 1.3 \mu\text{m}$ for Microelectromechanical System Technology;" <i>Journal of Applied Optics</i> , Vol. 37, No. 36, 20 December 1998	
RAI	A5	Churenkov, A.V.; "Silicon Micromechanical Optical Waveguide for Sensing and Modulation;" <i>Journal of Sensors and Actuators (A Physical)</i> , Vol. A57, No. 1, October 1996	
RAI	A6	Cook, J.P.D.; Este, G.O.; Shepherd, F.R.; et al.; "Stable, Low-Loss Optical Waveguides and Micromirrors Fabricated in Acrylate Polymers" <i>Applied Optics Journal</i> , Vol. 37, No. 7, March 1, 1998	
RM	A7	Cornett, Kimberly T.; Heritage, Jonathan P.; Solgaard, Olav; "Compact Optical Delay Line Based on Scanning Surface Micromachined Polysilicon Mirrors;" <i>2000 IEEE/LEOS International Conference on Optical MEMS, Kauai, Hawaii, August 21-24, 2000</i>	
RAI	A8	de Labachellerie, M.; Kaou, N.; et al.; "A Micromachined Connector for the Coupling of Optical Waveguides and Ribbon Optical Fibers;" <i>Journal of Sensors and Actuators (A Physical)</i> , Vol. A89, No. 1-2, March 20, 2001	
RAI	A9	Eng, Terry T.H.; Kan, Sidney C.; and Wong, George K.L.; "Voltage-Controlled Micromechanical SOI Optical Waveguides;" <i>IEEE TENCON, IEEE Region 10 International Conference on Microelectronics and VLSI - "Asia Pacific Microelectronics 2000" - Proceedings, 1995</i> 12/09/02 AB	
RAI	A10	Eng, Terry T.H.; Kan, Sidney C.; and Wong, George K.L.; "Surface-Micromachined Epitaxial Silicon Cantilevers as Movable Optical Waveguides on Silicon-on-Insulator Substrates;" <i>Journal on Sensors and Actuators A, Physical</i> , Vol. A49, No. 1-2, June 1995.	
RAI	A11	Eng, Terry T.H.; Kan, Sidney C.; and Wong, George K.L.; "Surface-Micromachined Movable SOI Optical Waveguides;" <i>Proceedings of the International Solid-State Sensors and Actuators Conference - Transducer, 1995</i>	
RAI	A12	Gorecki, Christopher; "Optimization of Plasma-Deposited Silicon Oxinitride Films for Optical Channel Waveguides;" <i>Journal of Optics and Laser Engineering</i> , Vol. 33, No. 1, January 2000	
RAI	A13	Haronian, D.; "Bottlenecks of Opto-MEMS;" <i>SPIE Proceedings - Micro-Opto-Electro-Mechanical Systems, Glasgow, UK, May 22-23, 2000</i>	

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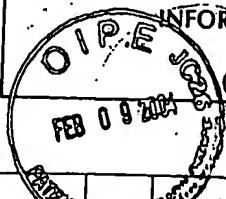
FORM PTO-1449	ATTY. DOCI NO. 263/176	SERIAL NO. 09/837,829
LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	APPLICANT: YING W. HSU	
	FILING DATE: April 17, 2001	GROUP: 2633



RAV	SB		Haronian, D.; "Displacement Sensing Using Geometrical Modulation in Reflection Mode (GM-RM) of Coupled Optical Waveguides;" <i>Journal of Micromechanics and Microengineering</i> , Vol. 8, No. 4, December 1998	
RAV	SB	A15	Haronian, D.; "Suspended Optical Waveguide With In-Plane Degree of Freedom or Microelectro-Mechanical Applications;" <i>Electronics Letters</i> , Vol. 34, No. 7, 2 nd April 1998	
RAV	SB	A16	Hoffmann, Martin; Kopka, Peter; and Voges, Edgar; "Thermo-optical Digital Switch Arrays in Silica-on-Silicon With Defined Zero-Voltage State;" <i>Journal of Lightwave Technology</i> , Vol. 16, No. 3, March 1998	
RAV	SB	A17	Jin, Young-Hyun; Seo, Kyoung-Sun; et al.; "An SOI Optical Microswitch Integrated With Silicon Waveguides and Touch-down Micromirror Actuators;" 2000 IEEE/LEOS International Conference on Optical MEMS, 21-24 August, 2000	
RAV	SB	A18	Koyanagi, Mitsumasa; "Optical Interconnection Using Polyimide Waveguide for Multi-Chip Module;" <i>Proceedings of SPIE, Society of Photo-Optical Instrumentation Engineers</i> , San Jose, CA, 1996	
RAV	SB	A19	Kruger, Michiel V.P.; Guddal, Michael H.; et al.; "Low Power Wireless Readout of Autonomous Sensor Wafer Using MEMS Grating Light Modulator;" 2000 IEEE/LEOS International Conference on Optical MEMS, Kauai, Hawaii, August 21-24, 2000	
RAV	SB	A20	Kuwana, Yasuhiro; Hirose, Akinori; Kurino, Hiroyuki; et al.; "Signal Propagation Characteristics in Polyimide Optical Waveguide With Micro-Mirrors for Optical Multichip Module;" <i>Japanese Journal of Applied Physics</i> , Vol. 38, No. 4B, April 1999	
RAV	SB	A21	Makihara, M.; "Microelectromechanical Intersecting Waveguide Optical Switch Based on Thermo-Capillarity;" 2000 IEEE/LEOS International Conference on Optical MEMS, Kauai, Hawaii, August 21-24, 2000	
RAV	SB	A22	Makihara, M.; Sato, Makoto; Shimokawa, Fusao; et al.; "Micromechanical Optical Switches Based on Thermocapillary Integrated in Waveguide Substrate;" <i>Journal of Lightwave Technology</i> , Vol. 17, No. 1, January 1999	
RAV	SB	A23	Makihara, M.; Shimokawa, F.; and Nishida, Y.; "Self-Holding Optical Waveguide Switch Controlled by Micromechanism;" <i>IEICE Trans. Electronics (Japan)</i> , Vol. E80-C, No. 2, February 1997	
RAV	SB	A24	Maoisel, J.; Guttman, J.; Huber, H.P.; et al.; "Optical Backplanes With Integrated Polymer Waveguides;" <i>Journal of Optical Engineering</i> , Vol. 39, No. 3, March 2000	12/09/02 SB
RAV	SB	A25	Maruo, Shoji; Ikuta, Koji; and Ninagawa, Toshihide; "Multi-Polymer Microstereolithography for Hybrid Opto-MEMS" has the same information as "Advanced Micro Stereolithography with Multi UV Polymers (System Development and Application to Three-Dimensional Optical Waveguides)," which is written in Japanese; <i>Journal of Transactions of the Institute of Electrical Engineers of Japan, Part E</i> , Vol. 120-E, No. 7, July 2000	
RAV	SB	A26	Matsumoto, Takuji; Kuwana, Yasuhiro; Hirose, Akinori; "Polyimide Optical Waveguide With Multi-Fan-Out for Multichip Module System;" <i>Proceedings from the Optoelectronic Interconnects V</i> , Vol. 3288, San Jose, CA January 28-29, 1998	
RAV	SB	A27	Matsumoto, Takuji; Fukuoka, Takeshi; Kurino, Hiroyuki; et al.; "Polyimide Optical Waveguide With Multi-Fan-Out for Multi-Chip Module Application;" <i>Proceedings of the 27th European Solid-State Device Research Conference</i> , France, September 22-24, 1997	

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SB		Isel, Jorg; Guttman; Joachim; Huber, Hans-Peter; "Optical Backplanes With Integrated Polymer Waveguides," <i>Journal of Optical Engineering</i> , Vol. 39, No. 3, March 2000
SB	A29	Mueller, Raluca; Pavelescu; and Manea, Elena; "3D Microstructures Integrated With Optical Waveguides and Photodiodes on Silicon," <i>MELECOB 1998 9th Mediterranean Electromechanical Conference Proceedings</i> , Vol. 1; May 18-20, 1998
SB	A30	Namba, Tohru; Uehara, Akihito; et al.; "High-Efficiency Micromirrors and Branched Optical Waveguides on Si Chips," <i>Japanese Journal of Applied Physics</i> , Part 1, Vol. 35, No. 2B, August 21-24, 1995
SB	A31	Oillier, Eric; Chabrol, Claude; et al.; "1 x 8 Micro-Mechanical Switches Based on Moving Waveguides for Optical Fiber Network Switching," <i>2000 IEEE/LEOS International Conference on Optical MEMS</i> , August 21-24, 2000
SB	A32	Ollier, Eric; and Mottier, P.; "Micro-Opto-Electro-Mechanical Systems: Recent Developments and LEIT's Activities," <i>Proceedings of the SPIE - The International Society for Optical Engineering</i> , Vol. 4076, May 22-24, 2000
SB	A33	Shubin, I.; and Wa, P.L.K.; "Electrostatically Actuated 1 x 2 Micro-Mechanical Optic Switch," <i>Electronics Letters</i> , Vol. 37, No. 7; March 29, 2001
SB	A34	Storgaard-Larsen, Torben; "Plasma-Enhanced Chemical Vapor Deposited Silicon Oxynitride Films for Optical Waveguide Bridges for Use in Mechanical Sensors," <i>Journal of the Electromechanical Society</i> , Vol. 144, No. 4, April 1997
SB	A35	Voges, E.; Hoffmann, M.; "FB1 Optical Waveguides on Silicon Combined With Micromechanical Structures," <i>Advanced Applications of Lasers in Materials and Processing; LEOS Summer Optical Meeting, 1996; IEEE, Piscataway, New Jersey, 96TH8154</i>
SB	A36	Yokoyama, S.; Nagata, T.; and Kuroda, Y.; et al.; "Optical Waveguides on Silicon Chips," <i>Journal of Vacuum Science & Technology A</i> , Vol. 13, No. 3, May-June 1995

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FORM PTO-1449

ATTY. DOCKET NO.
703427.7SERIAL NO.
09/837,817LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENTAPPLICANT:
Ying W. HsuFILING DATE:
April 17, 2001GROUP:
2874

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U.S. PATENT DOCUMENTS

EXAMINER R INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
AB	AA	5,278,692	01/11/1994	Delapierre	359	236	09/04/1992
AB	AB	5,357,590	10/18/1994	Auracher	385	33	04/07/1993
AB	AC	5,612,815	03/18/1997	Labeye et al.	359	320	01/11/1996

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
RB	AD	58068702	04/23/1983	Japan (Abstract only)	C02F	1/00	X	
RB	AE	DE 3817035 C1	08/17/1989	Germany	G02B	6/24	X	
RB	AF	06109990	04/22/1994	Japan (Abstract only)	G02B	26/08	X	
RB	AG	WO 01/77742 A2	10/18/2001	WIPO	G02F	1/00	X	

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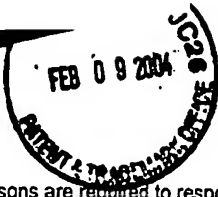
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PTO/SB/08A (10-96)

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		Application Number	09/837817 1b/676,628		
		Filing Date	04/17/2004 9/30/03		
		First Named Inventor	Hsu		
		Group Art Unit	2874 2883		
		Examiner Name	S. Pak Ryan Legisto		
Sheet	1	of	1	Attorney Docket Number	703427.7

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		Number	Kind Code ²		
RAV	AA	6,101,299		Laor	8/8/2000

FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publications of Cited Documents MM-DD-YYYY	T ⁶
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